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To Dwinell David <david.l.dwinell@spd02.usace.army.mil>,  
cc Lawrence Rob  
<Robert.J.Lawrence@spd02.usace.army.mil>, Chan  
Margaret <Margaret.Chang@spd02.usace.army.mil>, Brian  
bcc

Subject Revised maps/volumes Levin/Shore Terminals

1 attachment



05\_July18\_Levin\_maps.pdf

Dear David:

Please find attached copies of the revised maps and dredged material volumes for the Levin/Shore Terminals for your records.

Please call with any questions.

Regards,  
Jeffrey Cotsifas  
President

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## 1. INTRODUCTION

The Levin-Richmond Terminal Corporation (LRTC), located in Point Richmond, CA, in the Richmond Inner Harbor Channel (Figures 1-1 and 1-2) is currently seeking a 10-year permit from the U.S. Army Corps of Engineers (USACE), and 5 year permits from the Bay Conservation and Development Commission (BCDC) and San Francisco Bay Regional Water Quality Control Board (RWQCB) for maintenance dredging of their berth areas.

This Sampling and Analysis Plan (SAP) is being prepared in support of maintenance dredging in which the LRTC is proposing to dredge depositional material from it's loading terminal berth and an adjacent berth area operated by Shore Terminal; full Inland Testing Manual (ITM) testing will be performed to satisfy permit requirements. The material is proposed for removal in order to appropriately maintain essential Terminal operations. This SAP has been developed in accordance with currently applicable guidance, and establishes the general approach to sampling and assessment of sediments proposed for dredging with aquatic disposal being the preliminarily preferred disposal option.

To accommodate vessel transit and berthing, LRTC requires dredging of its berth area to a depth of -39.0 ft MLLW + 2.0 ft over-dredge; it is proposed that this area be sampled and tested to a total depth of -41.0 ft MLLW. The adjacent berth area will require dredging to a depth of -38.0 ft MLLW + 2.0 ft over-dredge; it is proposed that this area be sampled and tested to a total depth of -40.0 ft MLLW. The proposed maintenance depth and estimated volumes of dredged material for each area, including over-depth, are summarized in Table 1-1. It is proposed that the dredged material from this episode and any subsequent episodes will be disposed at the Alcatraz disposal site (SF-11).

**Table 1-1. Proposed maintenance dredging for the Levin-Richmond Terminal Corporation**

Area	Permitted Depth (ft MLLW)	Estimated Volume (yds <sup>3</sup> )	Over-depth (ft)	Estimated Volume (yds <sup>3</sup> )	Maintenance Depth (ft MLLW)	Total Estimated Volume (yds <sup>3</sup> )
1	-39.0	831	+2	4,670	-41	5,501
2	-38.0	11922	+2	5,120	-40	17,042
<b>Totals</b>	<b>-</b>	<b>12,753</b>	<b>-</b>	<b>9,790</b>	<b>-</b>	<b>22,543</b>

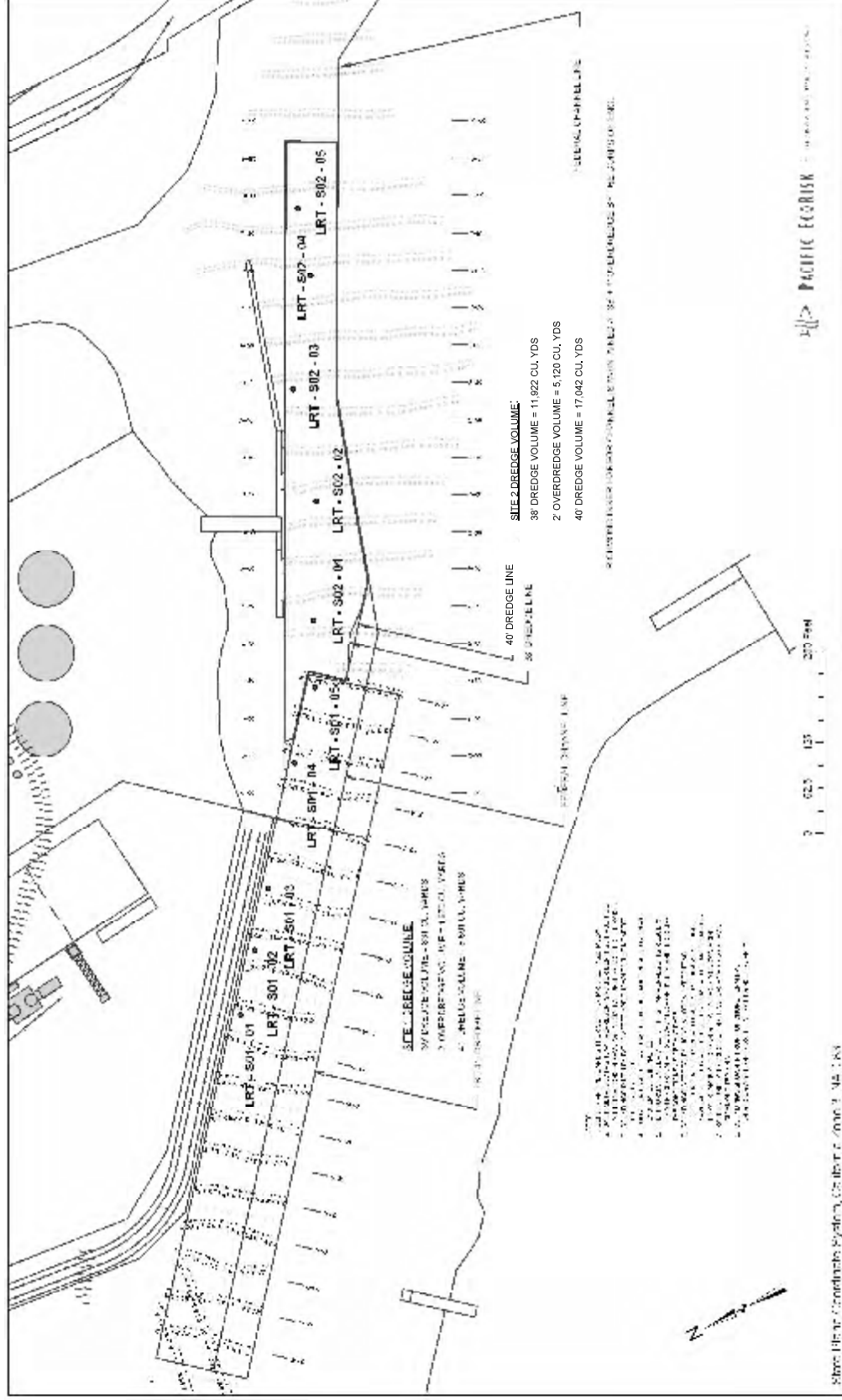


Figure 1-3. Levin-Richmond Terminal/Shore Terminal Sediment Core Locations



Figure 1-4. Site 1 (Levin-Richmond Terminal) Sediment Core Locations

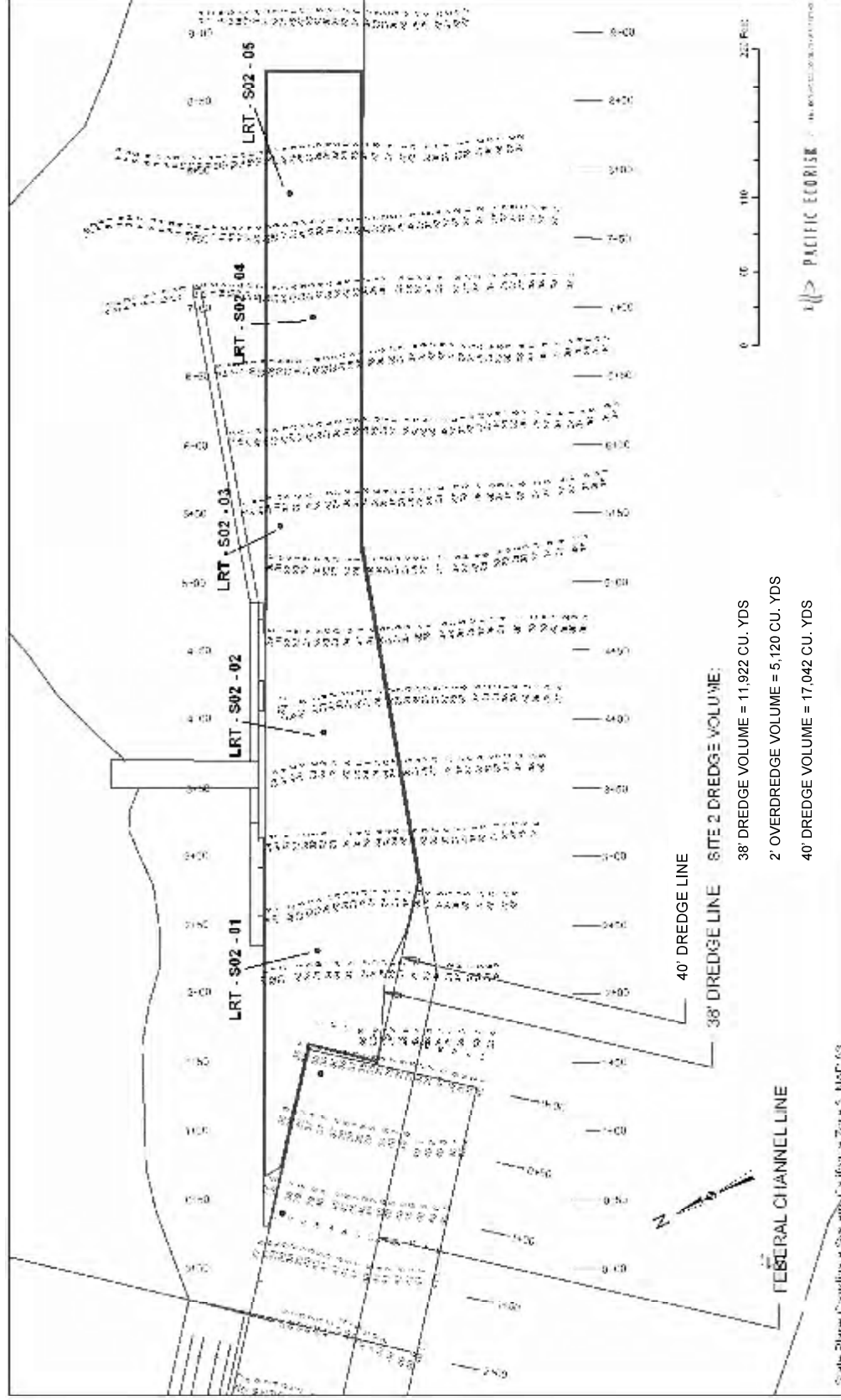


Figure 1-5. Site 2 (Shore Terminal) Sediment Core Locations